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### 1. [N152-111: Rapid Initialization and Filter Convergence for Electro-optic / Infrared Sensor Based Precision Ship-Relative Navigation for Automated Ship Landing](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Carrier based fixed wing aircraft need accurate, high rate, and high integrity precision ship-relative navigation (PS-RN) to conduct safe and efficient automated landings. This SBIR is focused on capability that is not dependent on Radio Frequency (RF) emissions or Global Positioning System (GPS) in order to reduce vulnerability to interference. The PS-RN solution must initialize very quickly beca ...

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### 2. [N152-112: Robust MEMs Oscillator Replacement for Quartz Crystal TCXO Oscillator](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

High Precision Temperature Compensated Crystal Oscillators (TCXO's) are used in GPS receivers, radio transceivers, and other radio frequency devices used in guided munitions. Quartz TCXO's are useful as a clock reference for these devices because of their high frequency stability, often well below 2 parts per million (ppm). However, quartz crystal devices are sensitive to both mechanical shock and ...

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### 3. [N152-113: Unmanned Undersea Vehicle \(UUV\) Detection and Classification in Harbor Environments](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

New or improved sensing concepts and technologies are needed to better recognize the presence of Unmanned Undersea Vehicles (UUVs) operating in ports and harbors, particularly in the proximity of U.S. Navy ships and submarines. The maturity and proliferation of UUVs throughout the world is presenting an emerging challenge for force protection in harbor environments. It is important to counter sens ...

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### 4. [N152-114: GaN Avalanche Devices for RF Power Generation](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Radio Frequency (RF) power generation by diode sources enables compact and affordable sources for a wide range of sensor applications. Avalanche breakdown is an important mechanism for the generation of RF power in a two terminal diode. Examples are IMPact ionization Avalanche Transit Time (IMPATT) diodes demonstrated in Silicon, Gallium Arsenide (GaAs), and Indium Phosphide (InP). By both thermal ...

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**5. [N152-115: Active Thermal Control System Optimization](#)**

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Thermal Management is a critical requirement for future warships with electronic propulsion, weapon, and sensor systems. Innovative thermal architectures are needed to cool next-generation, high-energy density electronics which are expected to exhibit highly transient loads during pulsed operation. Two-phase cooling systems, such as vapor compression cycles, pumped cooling loops, and hybrid system ...

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**6. [N152-116: Affordable Compact HPRF/HPM Attack Warning System](#)**

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Advances in high power microwave threats pose significant dangers to critical naval electronic systems. To mitigate these dangers, a warning system is needed that will cover a broad range of potential HPRF frequencies and large dynamic range of intensities with the ability to survive and be operational under the highest intensities with low false alarm rate. The HPRF sensor should be able to provi ...

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**7. [N152-117: Low Size, Weight, Power, and Cost \(SWAP-C\) Magnetic Anomaly Detection \(MAD\) System](#)**

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Research over the last decade has significantly reduced the Size, Weight, and Power (SWAP) of atomic vapor magnetometers, [1, 2] making these sensors a good match for unmanned Navy vehicles. This topic seeks innovative designs that incorporate such magnetometers into a Magnetic Anomaly Detection (MAD) system, including both the hardware and software to detect, localize, and track a magnetic dipole ...

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**8. [N152-118: Ultra High Density Carbon Nanotube \(CNT\) Based Flywheel Energy Storage for Shipboard Pulse Load Operation](#)**

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

The introduction of advanced weapons systems such as rail guns, lasers, and other future pulse loads to future warships create power and energy demands that exceed what a traditional ship electric plant interface can provide. This creates the problem of satisfying growing demand for with stored energy, while working within the limited space available aboard ship platforms. Flywheel energy storage ...

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### [9. N152-120: Attack Sensitive Brittle Software](#)

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Critical cyber systems are subject to attacks by the enemy. Generally, resilience and survivability are considered desirable properties for software in these systems. They aim to remain operational, though at a degraded state, when they are compromised. However, this is not always desirable. There may be circumstances where it is preferable for the software to be brittle and simply crash when atta ...

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### [10. N152-121: Compact Air-cooled Laser Modulate-able Source \(CALMS\)](#)

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Today, flexible compact laser sources in the UVA (315 nm - 400 nm) are not available for lab/field testing or other military applications. Technology solutions to this problem are needed in several key areas: 1) increasing the output power of individual laser modules operating in the UVA spectrum, 2) developing the capability to efficiently combine the outputs of multiple laser modules into a sing ...

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